

**What Is Claimed Is:**

1        1. A fuse structure, comprising:  
2            an optimal position of laser spot defined above a  
3        substrate;  
4            a first conductive layer formed on part of the substrate;  
5            a dielectric layer formed on the substrate and the first  
6        conductive layer;  
7            a second conductive layer comprising the position of laser  
8        spot formed on part of the dielectric layer;  
9            a third conductive layer formed on the part of the  
10        dielectric layer placed above the first conductive layer,  
11        (wherein the third conductive layer is insulated from the first  
12        and second conductive layers;} and  
13            at least one conductive plug penetrating the dielectric  
14        layer, to electrically connect the first conductive layer and  
15        the second conductive layer.

1        2. The fuse structure according to claim 1, wherein the  
2        material of the first conductive layer is tungsten.

1        3. The fuse structure according to claim 1, wherein the  
2        material of the second conductive layer is Al, AlCu alloy or  
3        poly-silicon.

1        4. The fuse structure according to claim 1, wherein the  
2        material of the third conductive layer is Al, AlCu alloy or  
3        poly-silicon.

1           5. The fuse structure according to claim 1, wherein the  
2 material of the dielectric layer is SiO<sub>2</sub>.

1           6. The fuse structure according to claim 1, wherein the  
2 material of the conductive plug is tungsten.

1           7. The fuse structure according to claim 1, further  
2 comprising a passivation layer having a window formed on the  
3 second conductive layer and the third conductive layer;  
4 wherein the window exposes the second conductive layer  
5 comprising the position of laser spot, part of the third  
6 conductive layer and part of the dielectric layer.

1           8. The fuse structure according to claim 7, wherein the  
2 material of the passivation layer is PE-TEOS SiO<sub>2</sub> or SiN.

1           9. A fuse window having a plurality of fuse structures,  
2 each of the fuse structures comprising:

3           an optimal position of laser spot defined above a  
4 substrate;

5           a first conductive layer formed on part of the substrate;

6           a dielectric layer formed on the substrate and the first  
7 conductive layer;

8           a second conductive layer comprising the position of laser  
9 spot formed on part of the dielectric layer;

10          a third conductive layer formed on the part of the  
11 dielectric layer placed above the first conductive layer,  
12 (wherein the third conductive layer is insulated from the first  
13 and second conductive layer}; and

14 at least one conductive plug penetrating the dielectric  
15 layer, for electrically connecting the first conductive layer  
16 and the second conductive layer;

17 wherein each of the fuse structures has its own position  
18 of laser spot on the second conductive layer, and the fuse  
19 structures are insulated from one another, and the laterals of  
20 the second conductive layer having the position of laser spot  
21 of any the fuse structures correspond to the third conductive  
22 layer of the adjoining fuse structure.

1 10. The fuse window according to claim 9, wherein the  
2 material of the first conductive layer is tungsten.

1 11. The fuse window according to claim 9, wherein the  
2 material of the second conductive layer is Al, AlCu alloy or  
3 poly-silicon.

1 12. The fuse window according to claim 9, wherein the  
2 material of the third conductive layer is Al, AlCu alloy or  
3 poly-silicon.

1 13. The fuse window according to claim 9, wherein the  
2 material of the dielectric layer is SiO<sub>2</sub>.

1 14. The fuse window according to claim 9, wherein the  
2 material of the conductive plug is tungsten.

1 15. A fuse structure, comprising:  
2 an optimal position of laser spot defined above a  
3 substrate;

4 a first conductive layer formed on part of the substrate;  
5 a dielectric layer formed on the substrate and the first  
6 conductive layer;

7 a second conductive layer comprising the position of laser  
8 spot formed on the dielectric layer; and

9 at least one conductive plug penetrating the dielectric  
10 layer, to electrically connect the first conductive layer and  
11 the second conductive layer.

1 16. The fuse structure according to claim 15, wherein the  
2 material of the first conductive layer is tungsten.

1 17. The fuse structure according to claim 15, wherein the  
2 material of the second conductive layer is Al, AlCu alloy or  
3 poly-silicon.

1 18. The fuse structure according to claim 15, wherein the  
2 material of the dielectric layer is SiO<sub>2</sub>.

1 19. The fuse structure according to claim 15, wherein the  
2 material of the conductive plug is tungsten.

1 20. The fuse structure according to claim 15, further  
2 comprising a passivation layer having a window formed on the  
3 second conductive layer;

4 wherein the window exposes the second conductive layer  
5 comprising the position of laser spot.

1 21. The fuse structure according to claim 20, wherein the  
2 material of the passivation layer is PE-TEOS SiO<sub>2</sub> or SiN.

1           22. A fuse window having a plurality of fuse structures,  
2 Each fuse structure comprising:

3           an optimal position of laser spot defined above a  
4 substrate;

5           a first conductive layer formed on part of the substrate;

6           a dielectric layer formed on the substrate and the first  
7 conductive layer;

8           a second conductive layer comprising the position of laser  
9 spot formed on part of the dielectric layer; and

10          at least one conductive plug penetrating the dielectric  
11 layer, to electrically connect the first conductive layer and  
12 the second conductive layer;

13          wherein each fuse structure has its own the position of  
14 laser spot on the second conductive layer, and the fuse  
15 structures are insulated from one another, and the laterals of  
16 the portion of the second conductive layer having the position  
17 of laser spot of any the fuse structure correspond to the portion  
18 of the second conductive layer having no position of laser spot  
19 of the adjoining fuse structure.

1           23. The fuse window according to claim 22, wherein the  
2 material of the first conductive layer is tungsten.

1           24. The fuse window according to claim 22, wherein the  
2 material of the second conductive layer is Al, AlCu alloy or  
3 poly-silicon.

1           25. The fuse window according to claim 22, wherein the  
2 material of the dielectric layer is SiO<sub>2</sub>.

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Time	Temp	Pressure	Flow	Rate	Time	Temp	Pressure	Flow	Rate
0.0	20.0	1.0	1.0	1.0	0.0	20.0	1.0	1.0	1.0
1.0	20.0	1.0	1.0	1.0	1.0	20.0	1.0	1.0	1.0
2.0	20.0	1.0	1.0	1.0	2.0	20.0	1.0	1.0	1.0
3.0	20.0	1.0	1.0	1.0	3.0	20.0	1.0	1.0	1.0
4.0	20.0	1.0	1.0	1.0	4.0	20.0	1.0	1.0	1.0
5.0	20.0	1.0	1.0	1.0	5.0	20.0	1.0	1.0	1.0
6.0	20.0	1.0	1.0	1.0	6.0	20.0	1.0	1.0	1.0
7.0	20.0	1.0	1.0	1.0	7.0	20.0	1.0	1.0	1.0
8.0	20.0	1.0	1.0	1.0	8.0	20.0	1.0	1.0	1.0
9.0	20.0	1.0	1.0	1.0	9.0	20.0	1.0	1.0	1.0
10.0	20.0	1.0	1.0	1.0	10.0	20.0	1.0	1.0	1.0
11.0	20.0	1.0	1.0	1.0	11.0	20.0	1.0	1.0	1.0
12.0	20.0	1.0	1.0	1.0	12.0	20.0	1.0	1.0	1.0
13.0	20.0	1.0	1.0	1.0	13.0	20.0	1.0	1.0	1.0
14.0	20.0	1.0	1.0	1.0	14.0	20.0	1.0	1.0	1.0
15.0	20.0	1.0	1.0	1.0	15.0	20.0	1.0	1.0	1.0
16.0	20.0	1.0	1.0	1.0	16.0	20.0	1.0	1.0	1.0
17.0	20.0	1.0	1.0	1.0	17.0	20.0	1.0	1.0	1.0
18.0	20.0	1.0	1.0	1.0	18.0	20.0	1.0	1.0	1.0
19.0	20.0	1.0	1.0	1.0	19.0	20.0	1.0	1.0	1.0
20.0	20.0	1.0	1.0	1.0	20.0	20.0	1.0	1.0	1.0